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		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L7	L6 and amidinohydrolase	28
<input type="checkbox"/>	L6	L5 or l4	67
<input type="checkbox"/>	L5	alkaligenes and creatine	5
<input type="checkbox"/>	L4	alcaligenes and creatine	64
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L3	5932466.pn.	1
<input type="checkbox"/>	L2	6080553	5
<input type="checkbox"/>	L1	re38687	1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 10 of 28 returned.

☐ 1. Document ID: US 20030119084 A1

L7: Entry 1 of 28

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030119084

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030119084 A1

TITLE: Variants of Erwinia-type creatinase

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shao, Zhixin	Penzberg		DE	
Schmuck, Rainer	Benediktbeuern		DE	
Kratzsch, Peter	Antdorf		DE	
Kenklies, Janet	Penzberg		DE	
Weisser, Harald	Bernried		DE	

US-CL-CURRENT: [435/18](#); [435/227](#); [435/252.3](#); [435/320.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNOW	Draw D
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☐ 2. Document ID: US RE38687 E

L7: Entry 2 of 28

File: USPT

Jan 11, 2005

US-PAT-NO: RE38687

DOCUMENT-IDENTIFIER: US RE38687 E

TITLE: Creatine amidinohydrolase, production thereof and use thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOW	Draw D
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☐ 3. Document ID: US 6821766 B1

L7: Entry 3 of 28

File: USPT

Nov 23, 2004

US-PAT-NO: 6821766

DOCUMENT-IDENTIFIER: US 6821766 B1

TITLE: Thermostable creatine amidinohydrolase and process for producing the same

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 4. Document ID: US 6699700 B1

L7: Entry 4 of 28

File: USPT

Mar 2, 2004

US-PAT-NO: 6699700

DOCUMENT-IDENTIFIER: US 6699700 B1

**** See image for Certificate of Correction ****

TITLE: Creatine amidinohydrolase and process for producing the same

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 5. Document ID: US 6080553 A

L7: Entry 5 of 28

File: USPT

Jun 27, 2000

US-PAT-NO: 6080553

DOCUMENT-IDENTIFIER: US 6080553 A

TITLE: Creatine amidinohydrolase, production thereof and use thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 6. Document ID: US 5932466 A

L7: Entry 6 of 28

File: USPT

Aug 3, 1999

US-PAT-NO: 5932466

DOCUMENT-IDENTIFIER: US 5932466 A

**** See image for Certificate of Correction ****

TITLE: Creatine amidinohydrolase gene, a novel recombinant DNA, and a process for producing creatine amidinohydrolase

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 7. Document ID: US 5451520 A

L7: Entry 7 of 28

File: USPT

Sep 19, 1995

US-PAT-NO: 5451520

DOCUMENT-IDENTIFIER: US 5451520 A

TITLE: Creatine amidinohydrolase from alkaligenes sp. ks-85 ferm bp-4487

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
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☐ 8. Document ID: US 5047329 A

L7: Entry 8 of 28

File: USPT

Sep 10, 1991

US-PAT-NO: 5047329

DOCUMENT-IDENTIFIER: US 5047329 A

TITLE: Method for the measurement of creatine or creatinine and reagents for these measurements

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
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☐ 9. Document ID: US 4215197 A

L7: Entry 9 of 28

File: USPT

Jul 29, 1980

US-PAT-NO: 4215197

DOCUMENT-IDENTIFIER: US 4215197 A

TITLE: Test means and method for creatinine determination

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
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☐ 10. Document ID: US 4039384 A

L7: Entry 10 of 28

File: USPT

Aug 2, 1977

US-PAT-NO: 4039384

DOCUMENT-IDENTIFIER: US 4039384 A

TITLE: Creatinine amidohydrolase and creatine amidinohydrolase and process for producing them

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
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Terms	Documents
L6 and amidinohydrolase	28

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Search Results - Record(s) 11 through 20 of 28 returned.

☐ 11. Document ID: US 3912588 A

L7: Entry 11 of 28

File: USPT

Oct 14, 1975

US-PAT-NO: 3912588

DOCUMENT-IDENTIFIER: US 3912588 A

TITLE: Creatine amidohydrolase in the conversion of creatinine to creatine

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Da
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☐ 12. Document ID: US 3907644 A

L7: Entry 12 of 28

File: USPT

Sep 23, 1975

US-PAT-NO: 3907644

DOCUMENT-IDENTIFIER: US 3907644 A

TITLE: Creatinine amidohydrolase composition and process for the determination of creatinine

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Da
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☐ 13. Document ID: JP 2000201675 A

L7: Entry 13 of 28

File: JPAB

Jul 25, 2000

PUB-NO: JP02000201675A

DOCUMENT-IDENTIFIER: JP 2000201675 A

TITLE: HEAT-RESISTANT CREATINE AMIDINOHYDROLASE AND ITS PRODUCTION

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Da
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☐ 14. Document ID: JP 10174585 A

L7: Entry 14 of 28

File: JPAB

Jun 30, 1998

PUB-NO: JP410174585A

DOCUMENT-IDENTIFIER: JP 10174585 A

TITLE: STABLE CREATINE AMIDINOHYDROLASE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 15. Document ID: JP 08308579 A

L7: Entry 15 of 28

File: JPAB

Nov 26, 1996

PUB-NO: JP408308579A

DOCUMENT-IDENTIFIER: JP 08308579 A

TITLE: GENE ENCODING CREATINE AMIDINOHYDROLASE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 16. Document ID: JP 08089255 A

L7: Entry 16 of 28

File: JPAB

Apr 9, 1996

PUB-NO: JP408089255A

DOCUMENT-IDENTIFIER: JP 08089255 A

TITLE: NOVEL CREATINE AMIDINOHYDROLASE GENE, NOVEL RECOMBINANT DNA AND PRODUCTION OF CREATINE AMIDINOHYDROLASE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 17. Document ID: JP 07265074 A

L7: Entry 17 of 28

File: JPAB

Oct 17, 1995

PUB-NO: JP407265074A

DOCUMENT-IDENTIFIER: JP 07265074 A

TITLE: NEW CREATINE AMIDINOHYDROLASE AND ITS USE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 18. Document ID: JP 62091182 A

L7: Entry 18 of 28

File: JPAB

Apr 25, 1987

PUB-NO: JP362091182A

DOCUMENT-IDENTIFIER: JP 62091182 A

TITLE: PRODUCTION OF CREATINE AMIDINOHYDROLASE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 19. Document ID: JP 55034029 A

L7: Entry 19 of 28

File: JPAB

Mar 10, 1980

PUB-NO: JP355034029A

DOCUMENT-IDENTIFIER: JP 55034029 A

TITLE: PREPARATION OF CREATININE AMIDOHYDROLASE AND/OR CREATINE AMIDINOHYDROLASE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 20. Document ID: US 6821766 B1, WO 200040708 A1, JP 2000201675 A, EP 1142994 A1

L7: Entry 20 of 28

File: DWPI

Nov 23, 2004

DERWENT-ACC-NO: 2000-475827

DERWENT-WEEK: 200478

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Novel thermostable Alcaligenes-derived creatine amidinohydrolase, useful for the diagnosis of kidney diseases and related diseases

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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L6 and amidinohydrolase

28

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☐ 21. Document ID: JP 07265074 A, JP 3114838 B2

L7: Entry 21 of 28

File: DWPI

Oct 17, 1995

DERWENT-ACC-NO: 1995-388685

DERWENT-WEEK: 200065

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TITLE: Creatine amidino:hydrolase - catalyses conversion of creatine to sarcosine and urea

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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☐ 22. Document ID: DE 4445084 A1, JP 2788174 B2, JP 07170979 A, US 5451520 A

L7: Entry 22 of 28

File: DWPI

Jun 22, 1995

DERWENT-ACC-NO: 1995-225787

DERWENT-WEEK: 199838

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: New creatine amidinohydrolase enzyme from Alcaligenes - useful for determ. of creatine and/or creatinine

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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☐ 23. Document ID: JP 62091182 A, JP 94057148 B2

L7: Entry 23 of 28

File: DWPI

Apr 25, 1987

DERWENT-ACC-NO: 1987-153951

DERWENT-WEEK: 198722

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Prodn. of creatine amidino:hydrolase - by culturing Alcaligenes bacteria and separating obtd. enzyme

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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☐ 24. Document ID: JP 55034029 A, JP 85050437 B

L7: Entry 24 of 28

File: DWPI

Mar 10, 1980

DERWENT-ACC-NO: 1980-28511C
DERWENT-WEEK: 198016
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TITLE: Creatinine amidohydrolase and/or creatine amidino-hydrolase prodn. - by incubation of Alkaligenes ak-2, prod. being useful for creatinine analysis

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 25. Document ID: NL 7205996 A, DE 2122294 A, FR 2135301 A, US 3806420 A, SU 421200 A, CH 572522 A, DE 2167120 A, DE 2122294 B, DE 2167120 B, JP 47043281 A, JP 81007674 B, NL 175434 B

L7: Entry 25 of 28

File: DWPI

DERWENT-ACC-NO: 1972-74817T
DERWENT-WEEK: 199817
COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Growth of microorganisms - contg creatinine - amidohydrolase and creatinine-amidinohydrolase

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 26. Document ID: NL 7205995 A, CA 993386 A, CH 572067 A, DE 2122298 A, DE 2122298 B, DE 2167034 A, DE 2167034 B, DE 2167035 A, DE 2167035 B, FR 2182705 A, GB 1359403 A, JP 47043283 A, JP 82029150 B, NL 175930 B, SE 7900292 A, SU 532341 A, US 3806416 A, US 3907644 A, US 3912588 A

L7: Entry 26 of 28

File: DWPI

DERWENT-ACC-NO: 1972-74816T
DERWENT-WEEK: 197247
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TITLE: Isolation of creatinine amido hydrolase and creatine - amidinohydrolase - from microorganisms, for use in clinical liver fun

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 27. Document ID: US 3806420 A

L7: Entry 27 of 28

File: USOC

Apr 23, 1974

US-PAT-NO: 3806420
DOCUMENT-IDENTIFIER: US 3806420 A

TITLE: PROCESS FOR THE PREPARATION OF CREATININE AMIDOHYDROLASE

DATE-ISSUED: April 23, 1974

INVENTOR-NAME: BERGMEYER H; GRAMSALL J ; HOLZ G ; NELBOECK HOCHSTETTER M

US-CL-CURRENT: 435/231, 435/12, 435/228, 435/815, 435/816, 435/829, 435/933

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 28. Document ID: US 3806416 A

L7: Entry 28 of 28

File: USOC

Apr 23, 1974

US-PAT-NO: 3806416

DOCUMENT-IDENTIFIER: US 3806416 A

TITLE: CREATINE AMIDOHYDROLASE AND PROCESS FOR ITS PREPARATION

DATE-ISSUED: April 23, 1974

INVENTOR-NAME: BERGMEYER H; MOLLERING H ; BEAUCAMP K ; NELBOECK HOCHSTETTER M

US-CL-CURRENT: 435/228, 435/12, 435/933

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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NEWS	22	JUN 13	FRFULL enhanced with patent drawing images
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NEWS	25	JUL 01	MEDICONF removed from STN
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=> s alcaligenes and creatine

L1 54 ALCALIGENES AND CREATINE

=> s alkaligenes and creatine

L2 6 ALKALIGENES AND CREATINE

=> s l1 or l2

L3 58 L1 OR L2

=> dup rem l3

PROCESSING COMPLETED FOR L3

L4 31 DUP REM L3 (27 DUPLICATES REMOVED)

=> s l4 and amidinohydrolase

L5 21 L4 AND AMIDINOHYDROLASE

=> d 1-10

L5 ANSWER 1 OF 21 MEDLINE on STN

AN 86298631 MEDLINE

DN PubMed ID: 3742654

TI Purification and characterization of ***creatine***

amidinohydrolase of ***Alcaligenes*** origin.

AU Matsuda Y; Wakamatsu N; Inouye Y; Uede S; Hashimoto Y; Asano K; Nakamura S

SO Chemical & pharmaceutical bulletin, (1986 May) 34 (5) 2155-60.

Journal code: 0377775. ISSN: 0009-2363.

CY Japan
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198610
ED Entered STN: 19900321
Last Updated on STN: 19900321
Entered Medline: 19861015

L5 ANSWER 2 OF 21 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

AN 92:609285 SCISEARCH

GA The Genuine Article (R) Number: JT339

TI EFFECTS OF PH, TEMPERATURE AND REACTION-PRODUCTS ON THE PERFORMANCE OF AN IMMOBILIZED CREATININASE-CREATINASE-SARCOSINE OXIDASE ENZYME-SYSTEM FOR CREATININE DETERMINATION

AU SAKSLUND H; HAMMERICH O (Reprint)

CS UNIV COPENHAGEN, HC ORSTED INST, DEPT CHEM, UNIVERSITETSPARKEN 5, DK-2100 COPENHAGEN, DENMARK

CYA DENMARK

SO ANALYTICA CHIMICA ACTA, (16 OCT 1992) Vol. 268, No. 2, pp. 331-345.
ISSN: 0003-2670.

DT Article; Journal

FS PHYS

LA ENGLISH

REC Reference Count: 49

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L5 ANSWER 3 OF 21 LIFESCI COPYRIGHT 2005 CSA on STN

AN 97:10782 LIFESCI

TI ***Creatine*** ***amidinohydrolase*** from ***Alkaligenes***
sp. ks-85 ferm bp-4487

CS KIKKOMAN CORPORATION

SO (1995) . US Patent 5451520; US Cl. 435/227 435/252.1 435/829..

DT Patent

FS A; W2

LA English

L5 ANSWER 4 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN

AN 2000-12466 BIOTECHDS

TI Novel thermostable ***Alcaligenes*** -derived ***creatine*** -
amidinohydrolase , useful for the diagnosis of kidney diseases and
related diseases;
creatinase production involving vector plasmid pUCE100-mediated gene
transfer for expression Escherichia coli

AU Furukawa K; Koyama Y; Suzuki M

PA Kikkoman

LO Chiba, Japan.

PI WO 2000040708 13 Jul 2000

AI WO 1999-JP7424 28 Dec 1999

PRAI JP 1999-33359 1 Jan 1999

DT Patent

LA Japanese

OS WPI: 2000-475827 [41]

L5 ANSWER 5 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN

AN 2000-11471 BIOTECHDS

TI Highly thermostable ***creatine*** - ***amidinohydrolase*** with
optimum pH in weakly acidic region, useful in assaying serum or urine
creatine for diagnosis of e.g. kidney diseases, scarcely affected
by bilirubin;

creatine -amidohydrolase isolation, produced by a
transformant Escherichia coli

AU Furukawa K; Ichikawa T

PA Kikkoman

LO Chiba, Japan.

PI WO 2000031245 2 Jun 2000

AI WO 1999-JP6583 25 Nov 1999

PRAI JP 1998-334252 25 Nov 1998

DT Patent

LA Japanese

OS WPI: 2000-411951 [35]

L5 ANSWER 6 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1997-02494 BIOTECHDS
TI A gene coding for ***creatine*** - ***amidinohydrolase*** ;
Alcaligenes faecalis thermostable creatinase expression in
Serratia liquefaciens for use in ***creatine*** determination and
disease diagnosis

PA Toyobo
LO Japan.
PI JP 08308579 26 Nov 1996
AI JP 1995-117283 16 May 1995
PRAI JP 1995-117283 16 May 1995
DT Patent
LA Japanese
OS WPI: 1997-059698 [06]

L5 ANSWER 7 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1996-06800 BIOTECHDS
TI DNA encoding ***creatine*** - ***amidinohydrolase*** ;
Alcaligenes sp. creatinase gene cloning and expression for
use in kidney disease diagnosis, etc.

AU Furukawa K; Ichikawa T; Suzuki M; Koyama Y
PA Kikkoman
LO Chiba, Japan.
PI DE 19536506 4 Apr 1996
AI DE 1995-1036506 29 Sep 1995
PRAI JP 1994-235737 29 Sep 1994
DT Patent
LA German
OS WPI: 1996-180805 [19]

L5 ANSWER 8 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1996-01134 BIOTECHDS
TI ***Creatine*** - ***amidinohydrolase*** ;
purification and characterization of creatinase produced by
Alcaligenes faecalis

PA Toyobo
LO Japan.
PI JP 07265074 17 Oct 1995
AI JP 1994-63363 31 Mar 1994
PRAI JP 1994-63363 31 Mar 1994
DT Patent
LA Japanese
OS WPI: 1995-388685 [50]

L5 ANSWER 9 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1995-11084 BIOTECHDS
TI New ***creatine*** - ***amidinohydrolase*** enzyme from
Alcaligenes ;
creatinase preparation, purification and characterization from
Alcaligenes sp. for use as a diagnostic

AU Furukawa K; Hashimoto K; Suzuki M
PA Kikkoman
PI DE 4445084 22 Jun 1995
AI DE 1994-4445084 16 Dec 1994
PRAI JP 1993-318675 17 Dec 1993
DT Patent
LA German
OS WPI: 1995-225787 [30]

L5 ANSWER 10 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1987-09207 BIOTECHDS
TI Production of ***creatine*** - ***amidinohydrolase*** ;
using ***Alcaligenes*** sp.

PA Kobayashi-Pharm.
PI JP 62091182 25 Apr 1987
AI JP 1985-234163 18 Oct 1985
PRAI JP 1985-234163 18 Oct 1985
DT Patent
LA Japanese

=> d 11-21

L5 ANSWER 11 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
 AN 1987-02879 BIOTECHDS
 TI Sarcosine-oxidase involved in creatinine degradation in
 Alcaligenes denitrificans subsp. denitrificans J9 and
 Arthrobacter spp. J5 and J11;
 enzyme purification and partial characterization
 AU Kim J M; Shimizu S; Yamada H
 LO Department of Agricultural Chemistry, Faculty of Agriculture, Kyoto
 University, Kyoto 606, Japan.
 SO Agric.Biol.Chem.; (1986) 50, 11, 2811-16
 CODEN: ABCHA6
 DT Journal
 LA English

L5 ANSWER 12 OF 21 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
 STN
 AN 2002:29488 BIOSIS
 DN PREV200200029488
 TI ***Creatine*** ***amidinohydrolase*** from ***alkaligenes***
 sp. KS-85 ferm BP-4487.
 AU Furukawa, K. [Inventor]; Hashimoto, K. [Inventor]; Suzuki, M. [Inventor]
 CS Noda, Japan
 ASSIGNEE: KIKKOMAN CORPORATION
 PI US 5451520 19950919
 SO Official Gazette of the United States Patent and Trademark Office Patents,
 (Sept. 19, 1995) Vol. 1178, No. 3, pp. 1663. print.
 CODEN: OGUPE7. ISSN: 0098-1133.
 DT Patent
 LA English
 ED Entered STN: 26 Dec 2001
 Last Updated on STN: 25 Feb 2002

L5 ANSWER 13 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1998:423907 HCAPLUS
 DN 129:92258
 TI Recombinant preparation of ***creatine*** ***amidinohydrolase***
 mutants of ***Alcaligenes*** faecalis with improved thermostability
 IN Sokabe, Atsushi; Nishiya, Yoshiaki; Kawamura, Yoshihisa
 PA Toyobo Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10174585	A2	19980630	JP 1996-337027	19961217
	JP 3422197	B2	20030630		
	JP 2001346594	A2	20011218	JP 2001-121708	19961217
PRAI	JP 1996-337027	A3	19961217		

L5 ANSWER 14 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1997:591389 HCAPLUS
 DN 127:187507
 TI Novel mutant ***creatine*** ***amidinohydrolase*** from
 Alcaligenes and its production and analytical use
 IN Sogabe, Atsushi; Hattori, Takashi; Nishiya, Yoshiaka; Kawamura, Yoshihisa
 PA Toyo Boseki Kabushiki Kaisha, Japan
 SO Eur. Pat. Appl., 21 pp.
 CODEN: EPXXDW
 DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 790303	A1	19970820	EP 1997-102270	19970213

R: DE, FR, GB, IT
 JP 09215494 A2 19970819 JP 1996-25435 19960213
 JP 3075390 B2 20000814
 US 6080553 A 20000627 US 1997-799897 19970213
 EP 1132467 A2 20010912 EP 2001-113052 19970213
 EP 1132467 A3 20011010
 R: DE, FR, GB, IT
 US 38687 E 20050111 US 2001-940941 20010828
 PRAI JP 1996-25435 A 19960213
 EP 1997-102270 A3 19970213
 US 1997-799897 A5 19970213

L5 ANSWER 15 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1985:593663 HCAPLUS
 DN 103:193663
 TI Higher homolog and N-ethyl analog of ***creatinine*** as synthetic
 phosphagen precursors in brain, heart, and muscle, repressors of liver
 amidinotransferase, and substrates for ***creatinine*** catabolic
 enzymes
 AU Roberts, Jeffrey J.; Walker, James B.
 CS Dep. Biochem., Rice Univ., Houston, TX, 77251, USA
 SO Journal of Biological Chemistry (1985), 260(25), 13502-8
 CODEN: JBCHA3; ISSN: 0021-9258
 DT Journal
 LA English

L5 ANSWER 16 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1980:512317 HCAPLUS
 DN 93:112317
 TI Creatinineamide hydrolase and creatineamidino hydrolase
 PA Toyobo Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 55034029	A2	19800310	JP 1978-105039	19780828
	JP 60050437	B4	19851108		
PRAI	JP 1978-105039	A	19780828		

L5 ANSWER 17 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1979:589698 HCAPLUS
 DN 91:189698
 TI Recovery of soluble creatinone ***amidinohydrolase***
 IN Holz, Guenter; Gramsall, Johanna; Nelboeck-Hochstetter, Michael;
 Bergmeyer, Hans Ulrich
 PA Boehringer Mannheim G.m.b.H., Fed. Rep. Ger.
 SO Ger., 3 pp. Division to Ger. 2,122,294.
 CODEN: GWXXAW
 DT Patent
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2167120	B1	19790802	DE 1971-2167120	19710505
	DE 2167120	C2	19800403		
PRAI	DE 1971-2167120	A	19710505		

L5 ANSWER 18 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1977:599190 HCAPLUS
 DN 87:199190
 TI Recovery of creatineamidinohydrolase
 IN Moellering, Hans; Beaucamp, Klaus; Nelboeck-Hochstetter, Michael;
 Bergmeyer, Hans Ulrich
 PA Boehringer Mannheim G.m.b.H., Fed. Rep. Ger.
 SO Ger. Offen., 12 pp. Division of Ger. Offen. 2,122,298.
 CODEN: GWXXBX
 DT Patent
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2167035	A1	19771006	DE 1971-2167035	19710505
	DE 2167035	C3	19790510		
PRAI	DE 1971-2167035	A	19710505		

L5 ANSWER 19 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1973:68764 HCAPLUS

DN 78:68764

TI Purification of creatinine amidohydrolase

IN Moellering, Hans; Beaucamp, Klaus; Nelboeck-Hochstetter, Michael;
Bergmeyer, Hans Ulrich

PA Boehringer Mannheim G.m.b.H.

SO Ger. Offen., 16 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2122298	A	19721123	DE 1971-2122298	19710505
	DE 2122298	C3	19790222		
	US 3806416	A	19740423	US 1972-249589	19720502
	NL 7205995	A	19721107	NL 1972-5995	19720504
	NL 175930	B	19840816		
	NL 175930	C	19850116		
	IT 954975	A	19730915	IT 1972-23890	19720504
	AT 311288	B	19731112	AT 1972-3879	19720504
	GB 1359403	A	19740710	GB 1972-20767	19720504
	IL 39362	A1	19741129	IL 1972-39362	19720504
	HU 166364	P	19750328	HU 1972-BO1369	19720504
	CH 572067	A	19760130	CH 1972-6622	19720504
	CA 993386	A1	19760720	CA 1972-141498	19720504
	DK 134026	B	19760830	DK 1972-2213	19720504
	FI 51358	B	19760831	FI 1972-1267	19720504
	SU 532341	D	19761015	SU 1972-1781172	19720504
	FR 2182705	B1	19770114	FR 1972-15957	19720504
	FR 2182705	A1	19731214		
	JP 57029150	B4	19820621	JP 1972-44534	19720504
	US 3912588	A	19751014	US 1973-411526	19731031
	US 3907644	A	19750923	US 1973-415463	19731113
	SE 7900292	A	19790112	SE 1979-292	19790112
PRAI	DE 1971-2122255	A	19710505		
	DE 1971-2122294	A	19710505		
	DE 1971-2122298	A	19710505		
	US 1972-247184	A2	19720424		
	US 1972-249589	A3	19720502		
	SE 1972-587	A	19720504		
	US 1973-411526	A2	19731031		

L5 ANSWER 20 OF 21 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN

AN 1972-74817T [47] WPIDS

TI Growth of microorganisms - contg creatinine - amidohydrolase and
creatinine- ***amidinohydrolase***

DC B04 D16

PA (BOEF) BOEHRINGER MANNHEIM GMBH

CYC 7

PI	NL 7205996	A	(197247)*
	DE 2122294	A	(197249)
	FR 2135301	A	(197309)
	US 3806420	A	19740423 (197418)
	SU 421200	A	19740814 (197504)
	CH 572522	A	19760213 (197615)
	DE 2167120	A	19781116 (197847)
	DE 2122294	B	19781130 (197849)
	DE 2167120	B	19790802 (197932)
	JP 47043281	A	19721218 (198112)
	JP 56007674	B	19810219 (198112)
	NL 175434	B	19840601 (198425)

ADT DE 2167120 A Div ex DE 1971-2122294 19710505, DE 1971-2167120 19710505

PRAI DE 1971-2167120 19710505; DE 1971-2122294 19710505;
DE 1971-2122298 19710505
IC C12D013-10; C12N009-86; C12R001-05

L5 ANSWER 21 OF 21 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
AN 1972-74816T [47] WPIDS
TI Isolation of creatinine amido hydrolase and ***creatinine*** -
amidinohydrolase - from microorganisms, for use in clinical liver
fun.

DC B04 D16 S03 S05
PA (BOEF) BOEHRINGER MANNHEIM GMBH
CYC 10

PI NL 7205995 A (197247)*
DE 2122298 A (197249)
FR 2182705 A 19740118 (197406)
US 3806416 A 19740423 (197418)
GB 1359403 A 19740710 (197428)
US 3907644 A 19750923 (197540)
US 3912588 A 19751014 (197543)
CH 572067 A 19760130 (197612)
CA 993386 A 19760720 (197632)
DE 2167034 A 19770922 (197739)
DE 2167035 A 19771006 (197741)
SU 532341 A 19770725 (197808)
DE 2122298 B 19780629 (197827)
DE 2167035 B 19780921 (197839)
SE 7900292 A 19790618 (197927)
DE 2167034 B 19800320 (198013)
JP 47043283 A 19721218 (198228)
JP 57029150 B 19820621 (198228)
NL 175930 B 19840816 (198435)

PRAI DE 1971-2122255 19710505; DE 1971-2122298 19710505;
DE 1971-2167034 19710505

IC C07C007-02; C07G007-28; C12D013-00; C12K001-00; C12N009-78; C12N009-80;
G01N031-14; G01N033-00

=> d 2,11 ab

L5 ANSWER 2 OF 21 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on
STN

AB The effects of pH, temperature (t) and reaction products on the
performance of enzyme reactors containing immobilized creatininase (CA),
creatinase (CI) and sarcosine oxidase (SO) for the determination of
creatinine were studied by flow-injection analysis with amperometric
detection of the resulting hydrogen peroxide. The optimum performance of
the coupled enzyme system was found at pH 7.7 and 25-degrees-C. Some of
the CI and SO activity was lost irreversibly at t greater-than-or-equal-to
30-degrees-C. In contrast, the activity of CA increased reversibly with t
up to at least 40-degrees-C. The effects of the reaction products on the
enzyme activities were examined. Glycine caused the CA activity to
increase and the SO activity to decrease, whereas the CI activity was
unaffected by this compound. Sarcosine caused a decrease in the CI
activity. The activities of all three enzymes were insensitive towards the
presence of formaldehyde and urea and so was the activity of SO in the
presence of ***creatinine*** and hydrogen peroxide. The fraction, alpha,
of the injected creatinine (or ***creatinine***) equilibrated by the CA
reactor is introduced as a quantitative measure of the CA activity, and
was between 10 and 72% depending on the enzyme loading. The unused
immobilized enzymes were found to maintain their activity for at least 6
months. When in heavy daily use, CA and SO lost ca. 25% of the activity
over a period of 20-30 days, whereas the activity of CI was found to be
essentially unchanged.

L5 ANSWER 11 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AB 3 Microorganisms that degrade creatinine and contain sarcosine-oxidase
(EC-1.5.3.1) were isolated from soil and identified to be
Alcaligenes denitrificans subsp. denitrificans J9 and
Arthrobacter spp. J5 and J11. Neither creatinine nor ***creatinine***
was detected in the culture broth of the 3 isolates and neither
creatinine-deiminase nor N-carbamoylsarcosine-amidohydrolase was detected

in the culture broth of cells grown in the presence of creatinine. The activities of creatinine-amidohydrolase and a sarcosine-oxidase in these isolates were high. Creatinine- ***amidohydrolase*** was also formed by creatinine. The isolate degraded creatinine only via ***creatine*** by inducibly formed creatinine-amidohydrolase, ***creatine*** -amidohydrolase and sarcosine-oxidase when cultivated with creatinine as main N-source. Sarcosine-oxidase was purified from isolate J9 by Sephacryl S-200 column chromatography and was partially characterized. (35 ref)

=> s sarcosine oxidase and arthrobacter
L6 138 SARCOSINE OXIDASE AND ARTHROBACTER

=> s sarcosine oxidase (5a) arthrobacter
L7 89 SARCOSINE OXIDASE (5A) ARTHROBACTER

=> s 17 (5a)(purifi? or isolat?)
L8 13 L7 (5A)(PURIFI? OR ISOLAT?)

=> dup rem 18
PROCESSING COMPLETED FOR L8
L9 4 DUP REM L8 (9 DUPLICATES REMOVED)

=> d 1-4

L9 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:366791 HCAPLUS
DN 141:242107
TI Isolation of sarcosine oxidase producing bacteria and study on conditions for enzyme production
AU Zhao, Gengfeng; Ma, Xiaohang; Jia, Xiaoming; Wang, Yuanyuan
CS College of Life Sciences, Zhejiang University, Hangzhou, 310029, Peop. Rep. China
SO Weishengwu Xuebao (2003), 43(2), 235-240
CODEN: WSHPA8; ISSN: 0001-6209
PB Kexue Chubanshe
DT Journal
LA Chinese

L9 ANSWER 2 OF 4 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 1
AN 96:537553 SCISEARCH
GA The Genuine Article (R) Number: UX079
TI CLONING OF GENES ENCODING HETEROTETRAMERIC SARCOSINE OXIDASE FROM ARTHROBACTER SP
AU MESKYS R (Reprint); RUDOMANSKIS R; LEIPUVIENE R
CS INST BIOCHEM, LAB BIOANAL, SECTOR BIOSYNTHESIS, MOKSLININKU 12, VILNIUS 2600, LITHUANIA (Reprint)
CYA LITHUANIA
SO BIOTECHNOLOGY LETTERS, (JUL 1996) Vol. 18, No. 7, pp. 781-786.
ISSN: 0141-5492.
DT Article; Journal
FS LIFE; AGRI
LA ENGLISH
REC Reference Count: 15
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L9 ANSWER 3 OF 4 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 2
AN 88:296143 SCISEARCH
GA The Genuine Article (R) Number: N4421
TI ***SARCOSINE*** ***OXIDASE*** FROM ***ARTHROBACTER***
-UREAFACIENS - ***PURIFICATION*** AND SOME PROPERTIES
AU OGUSHI S (Reprint); NAGAO K; EMI S; ANDO M; TSURU D
CS NAGASAKI UNIV, FAC PHARMACEUT SCI, 1-14 BUNKYO MACHI, NAGASAKI 852, JAPAN (Reprint); TOYO BOSEKI CO LTD, DIV RES, TSURUGA 914, JAPAN
CYA JAPAN
SO CHEMICAL & PHARMACEUTICAL BULLETIN, (1988) Vol. 36, No. 4, pp. 1445-1450.
DT Article; Journal
FS LIFE

LA ENGLISH
REC Reference Count: 17

L9 ANSWER 4 OF 4 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
AN 1979-28610B [15] WPIDS
TI Sarcosine oxidase prepn. - by incubating microorganism of genus
Arthrobacter in nutritional medium and isolating prod..
DC B04 D16
PA (TOYM) TOYOBO KK
CYC 1
PI JP 54028893 A 19790303 (197915)*
JP 58040470 B 19830906 (198339)
PRAI JP 1977-94432 19770805
IC C07G007-02; C12D013-10; C12N009-06; C12R001-06

=> s sarcosine oxidase (5a) corynebacterium
L10 150 SARCOSINE OXIDASE (5A) CORYNEBACTERIUM

=> s l10 (5a) (purifi? or isolat?)
L11 15 L10 (5A) (PURIFI? OR ISOLAT?)

=> dup rem l11
PROCESSING COMPLETED FOR L11
L12 5 DUP REM L11 (10 DUPLICATES REMOVED)

=> d 1-5

L12 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:211859 HCAPLUS
DN 131:83726
TI Nitrogen regulation in Corynebacterium glutamicum: isolation of genes
involved and biochemical characterization of corresponding proteins
AU Jakoby, Marc; Kramer, Reinhard; Burkovski, Andreas
CS Zulpicher-Str. 47, Institut fur Biochemie, Universitat zu Koln, D-50674,
Cologne, Germany
SO FEMS Microbiology Letters (1999), 173(2), 303-310
CODEN: FMLED7; ISSN: 0378-1097
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:941897 HCAPLUS
DN 124:22762
TI One-step cloning and overexpression of the sarcosine oxidase operon from
Corynebacterium sp. P-1
AU Chlumsky, Lawrence J.; Ramsey, Andrew J.; Jorns, Marilyn S.
CS School Medicine, Hahnemann University, Philadelphia, PA, 19102, USA
SO Flavins and Flavoproteins 1993, Proceedings of the International Symposium
-- 11th, Nagoya, July 27-31, 1993 (1994), Meeting Date 1993, 779-82.
Editor(s): Yagi, Kunio. Publisher: de Gruyter, Berlin, Germany.
CODEN: 61QUAJ
DT Conference
LA English

L12 ANSWER 3 OF 5 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on
STN DUPLICATE 1
AN 93:641551 SCISEARCH
GA The Genuine Article (R) Number: MC569
TI PREPARATION AND PROPERTIES OF RECOMBINANT CORYNEBACTERIAL SARCOSINE
OXIDASE - EVIDENCE FOR POSTTRANSLATIONAL MODIFICATION DURING TURNOVER WITH
SARCOSINE
AU CHLUMSKY L J; ZHANG L N; RAMSEY A J; JORNS M S (Reprint)
CS HAHNEMANN UNIV, DEPT BIOL CHEM, PHILADELPHIA, PA, 19102
CYA USA
SO BIOCHEMISTRY, (19 OCT 1993) Vol. 32, No. 41, pp. 11132-11142.
ISSN: 0006-2960.
DT Article; Journal

FS LIFE
LA ENGLISH
REC Reference Count: 44
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L12 ANSWER 4 OF 5 MEDLINE on STN DUPLICATE 2
AN 87076519 MEDLINE
DN PubMed ID: 3790506
TI Bacterial sarcosine oxidase: comparison of two multisubunit enzymes
containing both covalent and noncovalent flavin.
AU Kvalnes-Krick K; Jorns M S
NC GM 31704 (NIGMS)
SO Biochemistry, (1986 Oct 7) 25 (20) 6061-9.
Journal code: 0370623. ISSN: 0006-2960.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198702
ED Entered STN: 19900302
Last Updated on STN: 19970203
Entered Medline: 19870210

L12 ANSWER 5 OF 5 MEDLINE on STN DUPLICATE 3
AN 81215405 MEDLINE
DN PubMed ID: 7240129
TI ***Purification*** and some properties of ***sarcosine***
oxidase from ***Corynebacterium*** sp. U-96.
AU Suzuki M
SO Journal of biochemistry, (1981 Feb) 89 (2) 599-607.
Journal code: 0376600. ISSN: 0021-924X.
CY Japan
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198108
ED Entered STN: 19900316
Last Updated on STN: 19970203
Entered Medline: 19810820

=> d 4 ab

L12 ANSWER 4 OF 5 MEDLINE on STN DUPLICATE 2
AB ***Sarcosine*** ***oxidase*** was ***purified*** to
homogeneity from ***Corynebacterium*** sp. P-1, a soil organism
isolated by a serial enrichment technique. The enzyme contains 1 mol of
noncovalently bound flavin [flavin adenine dinucleotide (FAD)] plus 1 mol
of covalently bound flavin [8 alpha-(N3-histidyl)-FAD] per mole of enzyme
(Mr 168,000). The two flavins appear to have different roles in
catalysis. The enzyme has an unusual subunit composition, containing four
dissimilar subunits (Mr 100,000, 42,000, 20,000, and 6000). The same
subunits are detected in Western blot analysis of cell extracts prepared
in the presence of trichloroacetic acid, indicating that the subunits are
a genuine property of the enzyme as it exists in vivo. The presence of
both covalent and noncovalent flavin in a single enzyme is extremely
unusual and has previously been observed only with a ***sarcosine***
oxidase from a soil ***Corynebacterium*** ***isolated***
in Japan. The enzymes exhibit many similarities but are distinguishable
in electrophoretic studies. Immunologically, the enzymes are
cross-reactive but not identical. The results indicate that the synthesis
of a sarcosine oxidase containing both covalent and noncovalent flavin is
not a particularly unusual event in corynebacteria.

=> s sarcosine oxidase (5a) alcaligenes
L13 9 SARCOSINE OXIDASE (5A) ALCALIGENES

=> dup rem l13
PROCESSING COMPLETED FOR L13
L14 3 DUP REM L13 (6 DUPLICATES REMOVED)

=> d 1-3

L14 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:591389 HCAPLUS

DN 127:187507

TI Novel mutant creatine amidinohydrolase from Alcaligenes and its production and analytical use

IN Sogabe, Atsushi; Hattori, Takashi; Nishiya, Yoshiaka; Kawamura, Yoshihisa

PA Toyo Boseki Kabushiki Kaisha, Japan

SO Eur. Pat. Appl., 21 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 790303	A1	19970820	EP 1997-102270	19970213
	R: DE, FR, GB, IT				
	JP 09215494	A2	19970819	JP 1996-25435	19960213
	JP 3075390	B2	20000814		
	US 6080553	A	20000627	US 1997-799897	19970213
	EP 1132467	A2	20010912	EP 2001-113052	19970213
	EP 1132467	A3	20011010		
	R: DE, FR, GB, IT				
	US 38687	E	20050111	US 2001-940941	20010828
PRAI	JP 1996-25435	A	19960213		
	EP 1997-102270	A3	19970213		
	US 1997-799897	A5	19970213		

L14 ANSWER 2 OF 3 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
DUPLICATE 1

AN 87:258625 SCISEARCH

GA The Genuine Article (R) Number: H0849

TI CRYSTALLIZATION AND CHARACTERIZATION OF ***SARCOSINE***
OXIDASE FROM ***ALCALIGENES*** -DENITRIFICANS SUBSP
DENITRIFICANS

AU KIM J M (Reprint); SHIMIZU S; YAMADA H

CS KYOTO UNIV, FAC AGR, DEPT AGR CHEM, KYOTO 606, JAPAN (Reprint)

CYA JAPAN

SO AGRICULTURAL AND BIOLOGICAL CHEMISTRY, (1987) Vol. 51, No. 4, pp.
1167-1168.

DT Note; Journal

FS LIFE; AGRI

LA ENGLISH

REC Reference Count: 10

L14 ANSWER 3 OF 3 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
DUPLICATE 2

AN 86:666623 SCISEARCH

GA The Genuine Article (R) Number: E9870

TI ***SARCOSINE*** ***OXIDASE*** INVOLVED IN CREATININE DEGRADATION
IN ***ALCALIGENES*** -DENITRIFICANS SUBSP DENTRIFICANS J9 AND
ARTHROBACTER SPP J5 AND J11

AU KIM J M (Reprint); SHIMIZU S; YAMADA H

CS KYOTO UNIV, FAC AGR, DEPT AGR CHEM, KYOTO 606, JAPAN (Reprint)

CYA JAPAN

SO AGRICULTURAL AND BIOLOGICAL CHEMISTRY, (1986) Vol. 50, No. 11, pp.
2811-2816.

DT Article; Journal

FS LIFE; AGRI

LA ENGLISH

REC Reference Count: 35

=> s sarcosine oxidase (5a) pseudomonas

L15 20 SARCOSINE OXIDASE (5A) PSEUDOMONAS

=> dup rem l15

PROCESSING COMPLETED FOR L15

L16 12 DUP REM L15 (8 DUPLICATES REMOVED)

=> d 1-10

L16 ANSWER 1 OF 12 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 2001-12855 BIOTECHDS
TI Fabrication of a sensing module using micromachined biosensors;
miniaturized enzyme electrode biosensor using glucose-oxidase, urease,
uricase, creatinase, sarcosine-oxidase, creatininase for blood
component analysis (conference paper)
AU Suzuki H; Arakawa H; Karube I
CS Univ.Tsukuba-Inst.Mater.Sci.; Univ.Tokyo
LO Institute of Materials Science, University of Tsukuba, 1-1-1 Tennodai,
Tsukuba Science City 305-8573, Japan.
Email: hsuzuki@ims.tsukuba.ac.jp
SO Biosensors Bioelectron.; (2001) 16, 9-12, 725-33
CODEN: BBIOE4 ISSN: 0956-5663
Sixth World Congress on Biosensors, San Diego, CA, USA, 24-26th May,
2000.
DT Journal
LA English

L16 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:198177 HCAPLUS
DN 129:25066
TI Using porous glass in enzyme immobilization
AU Janasek, Dirk; Spohn, Uwe
CS Inst. Biotechnologie, Martin-Luther-Univ., Halle/Saale, D-06120, Germany
SO Bioforum (1998), 21(3), 108-109
CODEN: BFRME3; ISSN: 0940-0079
PB GIT Verlag GmbH
DT Journal
LA German

L16 ANSWER 3 OF 12 MEDLINE on STN DUPLICATE 1
AN 96196638 MEDLINE
DN PubMed ID: 8611516
TI Sarcosine oxidase contains a novel covalently bound FMN.
AU Willie A; Edmondson D E; Jorns M S
CS Department of Biochemistry, Medical College of Pennsylvania, Philadelphia,
USA.
NC GM 29433 (NIGMS)
GM 31704 (NIGMS)
SO Biochemistry, (1996 Apr 23) 35 (16) 5292-9.
Journal code: 0370623. ISSN: 0006-2960.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199606
ED Entered STN: 19960613
Last Updated on STN: 20000303
Entered Medline: 19960606

L16 ANSWER 4 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
DUPLICATE 2
AN 1996:266674 BIOSIS
DN PREV199698822803
TI Screening of the sarcosine oxidase-producing strain and characterization
of sarcosine oxidase.
AU Wu, Mei-Li [Reprint author]; Hong, Ming-Chuan; Chang, Ming-Chung
CS Dep. Food Sci. and Technol., Natl. Pingtung Polytechnic Inst., Pingtung,
Taiwan
SO Journal of the Chinese Agricultural Chemical Society, (1996) Vol. 34, No.
1, pp. 69-77.
CODEN: CKNHAA. ISSN: 0578-1736.
DT Article
LA Chinese
ED Entered STN: 10 Jun 1996
Last Updated on STN: 10 Jun 1996

L16 ANSWER 5 OF 12 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN

AN 1992-07331 BIOTECHDS
 TI Use of various types of column reactors for flow injection analysis;
 sequentially acting enzyme immobilization for sequential, mixed-bed or
 co-immobilized column; serum creatinine analysis using creatininase,
 creatinase and sarcosine-oxidase (conference paper)
 AU Tabata M; Murachi T; Endo J; Totani M
 LO College of Medical Technology, Kyoto University, Sakyo-ku, Kyoto 606,
 Japan.
 SO J.Chromatogr.; (1992) 597, 1-2, 435-42
 CODEN: JOCRAM
 DT Journal
 LA English

L16 ANSWER 6 OF 12 LIFESCI COPYRIGHT 2005 CSA on STN
 AN 91:18948 LIFESCI
 TI Process for obtaining sarcosine oxidase from microorganisms.
 AU Mayr, U.; Gauhl, H.; Seidel, H.
 CS Boehringer Mannheim GmbH, Mannheim-Waldorf (FRG)
 PI US 5024945 1991
 SO (1991) . US Cl. 435/191; Int. Cl. C12N 9/06, C12P 13/04..
 DT Patent
 FS A
 LA English

L16 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1991:97925 HCAPLUS
 DN 114:97925
 TI Utilization of glyphosate by Pseudomonas sp. GS
 AU Weidhase, Rosemarie; Albrecht, Birgit; Stock, Manfred; Weidhase, Reinhard
 A.
 CS Inst. Biochem. Pflanzen, Akad. Wiss. DDR, Halle, DDR-4050, Ger. Dem. Rep.
 SO Zentralblatt fuer Mikrobiologie (1990), 145(6), 433-8
 CODEN: ZEMIDI; ISSN: 0232-4393
 DT Journal
 LA German

L16 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
 AN 1985:147562 HCAPLUS
 DN 102:147562
 TI Sarcosine oxidase
 IN Mayr, Ulrich; Gauhl, Helmgard; Seidel, Hans; Roeder, Albert
 PA Boehringer Mannheim G.m.b.H. , Fed. Rep. Ger.
 SO Ger. Offen., 13 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3326888	A1	19850214	DE 1983-3326888	19830726
	ES 534117	A1	19850416	ES 1984-534117	19840706
	US 5024945	A	19910618	US 1984-629504	19840710
	CA 1230301	A1	19871215	CA 1984-459182	19840718
	JP 60043379	A2	19850307	JP 1984-153299	19840725
	JP 62019153	B4	19870427		
	EP 135070	A2	19850327	EP 1984-108877	19840726
	EP 135070	A3	19850508		
	EP 135070	B1	19880323		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	AT 33148	E	19880415	AT 1984-108877	19840726
PRAI	DE 1983-3326888	A	19830726		
	EP 1984-108877	A	19840726		

L16 ANSWER 9 OF 12 LIFESCI COPYRIGHT 2005 CSA on STN
 AN 82:85357 LIFESCI
 TI Enzyme electrodes for simultaneous determination of creatinine and
 creatine in serum or whole blood.
 ENZYME ENGINEERING. VOLUME 6.
 AU Tsuchida, T.; Yoda, K.; Chibata, I. [editor]; Fukui, S. [editor]; Wingard,
 L.B., Jr. [editor]
 CS Katata Res. Cent., Toyobo Co., Ltd. Honkatata, Otsu 520-02, Japan

SO ., (1982) pp. 475-476.
Meeting Info.: 6. Enzyme Engineering Conference. Kashikojima (Japan).
20-25 Sep 1981.
ISBN: 0-306-41121-0.

DT Book
TC Conference
FS L; A
LA English

L16 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1972:96144 HCAPLUS
DN 76:96144
TI Isolation of acid-nonextractable flavines from a bacterial sarcosine
oxidase
AU Patek, David R.; Dahl, C. Robert; Frisell, Wilhelm R.
CS Coll. Med. Dent. New Jersey, New Jersey Med. Sch., Newark, NJ, USA
SO Biochemical and Biophysical Research Communications (1972), 46(2), 885-91
CODEN: BBRC9; ISSN: 0006-291X
DT Journal
LA English

=> d 11, 12

L16 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1951:11515 HCAPLUS
DN 45:11515
OREF 45:2060h-i
TI The sarcosine oxidase in adapted and unadapted cultures of a strain of
Pseudomonas aeruginosa
AU Bernheim, Frederick
CS Duke Univ., Durham, NC
SO Journal of Bacteriology (1950), 60, 767-70
CODEN: JOBAAY; ISSN: 0021-9193
DT Journal
LA Unavailable

L16 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1950:56764 HCAPLUS
DN 44:56764
OREF 44:10792i,10793a-b
TI Studies on a sarcosine oxidase of bacterial origin
AU Kopper, Paul H.
CS Chicago Med. School
SO Journal of General Physiology (1950), 34, 9-17
CODEN: JGPLAD; ISSN: 0022-1295
DT Journal
LA Unavailable

=> d 12 ab

L16 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
AB The ***Pseudomonas*** ***sarcosine*** ***oxidase*** behaves
like the L-amino acid oxidase from Proteus, neither requiring a dialyzable
cofactor for activity. Drying, lyophilization, or dialysis against distd.
H2O inactivates the enzyme. Optimum activity is attained at pH 7.8. The
activity is proportional to the enzyme concn. and to the concn. of the
substrate up to the satn. of the enzyme with substrate, the two combining
mol. for mol. The heat inactivation of the enzyme is a reaction of the
first order. The crit. thermal increment is 103, 000 calories per mole
within the range 48-52.degree.. Inhibition of the enzyme by various
substances was detd. Complete inhibition was achieved with 10-4 M CuSO4,
AgNO3, HgCl2, 10-3 M cysteine, or NaCN and 10-2 M Na benzoate. The enzyme
was prepd. from a creatine-decomp. strain of Pseudomonas aeruginosa.

=> s sarcosine oxidase (5a) micrococcus

L17 0 SARCOSINE OXIDASE (5A) MICROCOCCUS

=> s sarcosine oxidase and micrococcus

=> dup rem l18

PROCESSING COMPLETED FOR L18

L19 2 DUP REM L18 (1 DUPLICATE REMOVED)

=> d 1,2

L19 ANSWER 1 OF 2 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN

AN 1986-243301 [37] WPIDS

DNN N1986-181799 DNC C1986-104777

TI Spectrophotometric analysis of substrate or enzyme activity - includes adding reagent contg. oxidase, katarase and peroxidase and reagent contg. extract of e.g liver.

DC B04 D16

PA (TOYM) TOYOBO KK

CYC 1

PI JP 61173799 A 19860805 (198637)* 8

JP 04034400 B 19920605 (199227) 8 C12Q001-26

ADT JP 61173799 A JP 1985-16237 19850129; JP 04034400 B JP 1985-16237 19850129

FDT JP 04034400 B Based on JP 61173799

PRAI JP 1985-16237 19850129

IC ICM C12Q001-26

ICS C12Q001-28; C12Q001-30

L19 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1

AN 1984:587515 HCAPLUS

DN 101:187515

TI Reagent and methods for determining N-carbamoylsarcosine and a new enzyme suitable for this method

IN Deeg, Rolf; Roeder, Albert; Siedel, Joachim; Gauhl, Helmgard; Ziegenhorn, Joachim

PA Boehringer Mannheim G.m.b.H. , Fed. Rep. Ger.

SO Ger. Offen., 18 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3248145	A1	19840628	DE 1982-3248145	19821227
	AU 8321870	A1	19840705	AU 1983-21870	19831201
	AU 545903	B2	19850808		
	ES 528117	A1	19840801	ES 1983-528117	19831216
	US 4645739	A	19870224	US 1983-562072	19831216
	DK 8305925	A	19840628	DK 1983-5925	19831222
	DK 173112	B1	20000131		
	ZA 8309522	A	19840926	ZA 1983-9522	19831222
	DD 216255	A5	19841205	DD 1983-258475	19831222
	DD 222631	A5	19850522	DD 1983-268005	19831222
	CA 1210675	A1	19860902	CA 1983-444052	19831222
	IL 70529	A1	19871020	IL 1983-70529	19831222
	EP 112571	A1	19840704	EP 1983-113075	19831223
	EP 112571	B1	19870805		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	JP 59132891	A2	19840731	JP 1983-242347	19831223
	JP 63009839	B4	19880302		
	AT 28758	E	19870815	AT 1983-113075	19831223
	JP 63102680	A2	19880507	JP 1987-196139	19870805
	JP 04007673	B4	19920212		
PRAI	DE 1982-3248145	A	19821227		
	EP 1983-113075	A	19831223		

=> d kwic

L19 ANSWER 1 OF 2 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN

AB

the sample, and (3) determining content of substrate or enzymic activity of sample spectrophotometrically.

(1) is e.g. glycerol oxidase, ***sarcosine*** ***oxidase*** ,

cholesterol oxidase, or glucose oxidase (II) is extracted from animal liver, or kidney, or a ***Micrococcus*** strain. (III) may be added to one or both of the first and second reagents. The amount of (III) used.

=> d 2 kwic

L19 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
AB N-Carbamoylsarcosine (I) is detd. by reacting it with microbial I amidohydrolase and detg. the sarcosine formed by a ***sarcosine***
oxidase -peroxidase coupled system. The prodn. and purifn. of I amidohydrolase are also described. Thus, for detn. of I, the sample was incubated with I amidohydrolase, and the sarcosine formed was reacted with
sarcosine ***oxidase*** and O2. The H2O2 formed in the latter reaction was detd. by reaction with 4-aminophenazone catalyzed by peroxidase. The absorbance.
IT Arthrobacter
Micrococcus
Moraxella
(N-carbamoylsarcosine aminohydrolase of, manuf. and prepn. of, for detn. of N-carbamoylsarcosine)
IT 616-04-6
RL: ANST (Analytical study)
(Arthrobacter and Moraxella and ***Micrococcus*** growth on, for manuf. of N-carbamoylsarcosine aminohydrolase)

=> s sarcosine oxidase and bacillus
L20 155 SARCOSINE OXIDASE AND BACILLUS

=> s sarcosine oxidase (5a) bacillus
L21 80 SARCOSINE OXIDASE (5A) BACILLUS

=> s l21 (5a) (purifi? or isolat?)
L23 14 L21 (5A) (PURIFI? OR ISOLAT?)

=> dup rem l23
PROCESSING COMPLETED FOR L23
L24 10 DUP REM L23 (4 DUPLICATES REMOVED)

=> d 1-10

L24 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:357616 HCAPLUS
DN 135:177054
TI Characterization of recombinant monomeric sarcosine oxidase from Bacillus sp. B-0618
AU Wagner, Mary Ann Hope
CS Allegheny Univ. of Health Sciences, Philadelphia, PA, USA
SO (2000) 285 pp. Avail.: UMI, Order No. DA9981397
From: Diss. Abstr. Int., B 2001, 61(7), 3584
DT Dissertation
LA English
L24 ANSWER 2 OF 10 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 2000:569657 SCISEARCH
GA The Genuine Article (R) Number: 336RG
TI The human L-pipecolic acid oxidase is similar to bacterial monomeric sarcosine oxidases rather than D-amino acid oxidases
AU Dodt G; Kim D; Reimann S; McCabe K; Gould S J; Mihalik S J (Reprint)
CS JOHNS HOPKINS UNIV, SCH MED, DEPT BIOL CHEM, BALTIMORE, MD 21205 (Reprint); JOHNS HOPKINS UNIV, SCH MED, DEPT BIOL CHEM, BALTIMORE, MD 21205; JOHNS HOPKINS UNIV, SCH MED, DEPT PEDIAT, BALTIMORE, MD 21205; RUHR UNIV BOCHUM, INST PHYSIOL CHEM, D-4630 BOCHUM, GERMANY; KENNEDY KREISER INST, BALTIMORE, MD
CYA USA; GERMANY
SO CELL BIOCHEMISTRY AND BIOPHYSICS, (SPR 2000) Vol. 32, pp. 313-316.
Publisher: HUMANA PRESS INC, 999 RIVERVIEW DRIVE SUITE 208, TOTOWA, NJ 07512.

ISSN: 1085-9195.

DT Article; Journal

LA English

REC Reference Count: 23

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L24 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:802468 HCAPLUS

DN 132:46946

TI Cloning and expression of gene for sarcosine oxidase from Bacillus subtilis and use as biochemical reagent

IN Nishiya, Yoshiaki; Kawamura, Yoshihisa

PA Toyobo Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11346771	A2	19991221	JP 1998-157583	19980605
PRAI	JP 1998-157583		19980605		

L24 ANSWER 4 OF 10 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN

AN 1999-00894 BIOTECHDS

TI Crystalline sarcosine-oxidase;
produced by Bacillus sp. and used for kidney disease therapy

PA Kikkoman

LO Japan.

PI JP 10262658 6 Oct 1998

AI JP 1997-78524 28 Mar 1997

PRAI JP 1997-78524 28 Mar 1997

DT Patent

LA Japanese

OS WPI: 1998-587280 [50]

L24 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1996:731798 HCAPLUS

DN 126:3764

TI Cloning and expression of gene for sarcosine oxidase of Bacillus

IN Sagai, Hitoshi; Masujima, Harumi; Suzuki, Yasushi; Ikuta, Shigeru

PA Asahi Chemical Ind, Japan

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08238087	A2	19960917	JP 1995-331733	19951220
	JP 2729045	B2	19980318		
PRAI	JP 1995-331733		19951220		

L24 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1994:128518 HCAPLUS

DN 120:128518

TI Bacillus sarcosine oxidase, its preparation with Bacillus, and its use in creatinine determination

IN Long, Susan

PA Genzyme Corp., USA

SO PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9401539	A1	19940120	WO 1993-US6620	19930714
	W: AU, CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9346777	A1	19940131	AU 1993-46777	19930714

PRAI US 1992-914154 A 19920714
WO 1993-US6620 A 19930714

L24 ANSWER 7 OF 10 LIFESCI COPYRIGHT 2005 CSA on STN
AN 91:45028 LIFESCI
TI Cloning and expression of the sarcosine oxidase gene from Bacillus sp.
NS-129 in Escherichia coli .
AU Koyama, Y.; Yamamoto-Otake, H.; Suzuki, M.; Nakano, E.
CS Res. and Dev. Div., Kikkoman Corp., Noda 399, Noda-shi, Chiba 278, Japan
SO AGRIC. BIOL. CHEM., (1991) vol. 55, no. 5, pp. 1259-1263.
DT Journal
FS J; N; G
LA English
SL English

L24 ANSWER 8 OF 10 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1989-05997 BIOTECHDS
TI New DNA sequence encoding sarcosine-oxidase;
production of recombinant sarcosine-oxidase by transformed Escherichia
coli for use in diagnosis
PA Toyo-Jozo
PI DE 3827168 23 Feb 1989
AI DE 1988-827168 10 Aug 1988
PRAI JP 1987-199460 10 Aug 1987
DT Patent
LA German
OS WPI: 1989-062212 [09]

L24 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1988:449629 HCAPLUS
DN 109:49629
TI ***Isolation*** of ***sarcosine*** ***oxidase*** gene from
Bacillus NS129, and expression of the gene in Escherichia coli
IN Koyama, Yasuji; Nakano, Eiichi; Suzuki, Masaru; Yamamoto, Hideko
PA Kikkoman Corp., Japan; Noda Institute for Scientific Research
SO Ger. Offen., 10 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3714532	A1	19880303	DE 1987-3714532	19870430
	DE 3714532	C2	19960515		
	JP 63059893	A2	19880315	JP 1986-201289	19860829
	JP 06065303	B4	19940824		
	JP 63059885	A2	19880315	JP 1986-201290	19860829
	JP 06032608	B4	19940502		
PRAI	JP 1986-201289	A	19860829		
	JP 1986-201290	A	19860829		

L24 ANSWER 10 OF 10 MEDLINE on STN DUPLICATE 1
AN 87244546 MEDLINE
DN PubMed ID: 3594681
TI ***Purification*** and characterization of ***sarcosine***
oxidase of ***Bacillus*** origin.
AU Matsuda Y; Hoshika H; Inouye Y; Ikuta S; Matsuura K; Nakamura S
SO Chemical & pharmaceutical bulletin, (1987 Feb) 35 (2) 711-7.
Journal code: 0377775. ISSN: 0009-2363.
CY Japan
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198708
ED Entered STN: 19900305
Last Updated on STN: 19970203
Entered Medline: 19870803

=> dis his

(FILE 'HOME' ENTERED AT 22:19:57 ON 01 JUL 2005)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 22:20:39 ON 01 JUL 2005

L1 54 S ALCALIGENES AND CREATINE
L2 6 S ALCALIGENES AND CREATINE
L3 58 S L1 OR L2
L4 31 DUP REM L3 (27 DUPLICATES REMOVED)
L5 21 S L4 AND AMIDINOHYDROLASE
L6 138 S SARCOSINE OXIDASE AND ARTHROBACTER
L7 89 S SARCOSINE OXIDASE (5A) ARTHROBACTER
L8 13 S L7 (5A) (PURIFI? OR ISOLAT?)
L9 4 DUP REM L8 (9 DUPLICATES REMOVED)
L10 150 S SARCOSINE OXIDASE (5A) CORYNEBACTERIUM
L11 15 S L10 (5A) (PURIFI? OR ISOLAT?)
L12 5 DUP REM L11 (10 DUPLICATES REMOVED)
L13 9 S SARCOSINE OXIDASE (5A) ALCALIGENES
L14 3 DUP REM L13 (6 DUPLICATES REMOVED)
L15 20 S SARCOSINE OXIDASE (5A) PSEUDOMONAS
L16 12 DUP REM L15 (8 DUPLICATES REMOVED)
L17 0 S SARCOSINE OXIDASE (5A) MICROCOCCUS
L18 3 S SARCOSINE OXIDASE AND MICROCOCCUS
L19 2 DUP REM L18 (1 DUPLICATE REMOVED)
L20 155 S SARCOSINE OXIDASE AND BACILLUS
L21 80 S SARCOSINE OXIDASE (5A) BACILLUS
L22 73 S L20 (5A) (PURIFI? OR ISOLAT?)
L23 14 S L21 (5A) (PURIFI? OR ISOLAT?)
L24 10 DUP REM L23 (4 DUPLICATES REMOVED)

=> log h

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	166.17	166.38
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.46	-1.46

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 22:40:54 ON 01 JUL 2005